

Review 10 slopefields

$\frac{dy}{dx} = 2x$

$y = x^2 + C$ general solution

slopefield shows us the whole family of solutions without actually integrating

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Ex 1. $\frac{dy}{dx} = \frac{1}{x}$

a) sketch the slopefield

b) graph the particular solution thru (1,0)

$y = \ln|x| + C$

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Ex 2 $\frac{dy}{dx} = y^2(x-1)$

sketch specific solution at (1,1)

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